

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Vignita 22313-1450 www.uspto.gov

DATE MAILED: 09/26/2003

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/963,316	09/25/2001	Toshio Imai	TOYAM77.001AUS	1352
75	590 09/26/2003			
CHOATE, HALL & STEWART			EXAMINER	
PATENT DEPARTMENT EXCHANGE PLACE			ROARK, JESSICA H	
53 STATE STR BOSTON, MA			ART UNIT	PAPER NUMBER
2001011, 11111	V#107		1644	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office Action Summary	09/963,316	IMAI ET AL.					
Office Action Summary	Examiner	Art Unit					
The MAU INC DATE of this communication and	Jessica H. Roark	1644	hdross				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address P riod for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status							
1) Responsive to communication(s) filed on	•						
2a) ☐ This action is FINAL . 2b) ☐ Th	is action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims							
4)⊠ Claim(s) <u>1-14</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6) Claim(s) is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) 1-14 are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)[X] All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
 a) The translation of the foreign language pro 15) Acknowledgment is made of a claim for domesting 							
Attachment(s)							
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🔲 Noti	view Summary (PTO-413) Paper No ce of Informal Patent Application (P vr: .					

Application/Control Number: 09/963,316

Art Unit: 1644

DETAILED ACTION

1. Claims 1-14 are pending.

Restriction Requirement

- 2. Restriction to one of the following inventions is required under 35 U.S.C. § 121:
 - I. Claims 1, 3 and 5, drawn to a method of separating or identifying killer lymphocytes using an anti-CX3CR1 antibody, Class 435, subclass 7.21
 - II. Claims 2, 4, 6, 7 and 12, drawn to an anti-CX3CR1 antibody; classified in Class 530, subclass 388.22.
 - III. Claims 7-8, drawn to an anti-fractalkine antibody, classified in Class 530, subclass 388.23.
 - IV. Claims 9 and 11, drawn to a method of treating an autoimmune disease by administering an antibody to CX3CR1, classified in Class 424, subclass 143.1.
 - V. Claims 9-11, drawn to a method of treating an autoimmune disease by administering an antibody to fractalkine, classified in Class 424, subclass 144.1.
 - VI. Claim 13, drawn to a method of treating a cancer by introducing a gene encoding fractalkine, classified in Class 514, subclass 44.
 - VII. Claim 14, drawn to a gene coding for fractalkine, classified in Class 536, subclass 23.5.

The Inventions are distinct, each from the other because:

- 3. Groups II, III, and VII are different products. Nucleic acids and antibodies to different polypeptides differ with respect to their structures and physicochemical properties; therefore each product is patentably distinct.
- 4. Groups I, IV, V, and VI are different methods. Each method differs with respect to one or more of ingredients used, method steps, and endpoints; therefore, each method is patentably distinct.
- 5. Groups (II and I/IV), (III and V) and (VII and VI) are related as product and process of using. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)).

In the instant case the antibodies of Groups II and III can be used for affinity purification of their respective protein antigens, in addition to the methods of treating and detecting recited; and the nucleic acid of Group VII can be used as a hybridization probe in a method of detecting.

Application/Control Number: 09/963,316 Page 3

Art Unit: 1644

6. These inventions are distinct for the reasons given above. In addition, they have acquired a separate status in the art as shown by different classification and/or recognized divergent subject matter. Further, a different field of search would be required based upon the structurally distinct products recited and the various methods of use comprising distinct method steps. Moreover, a prior art search also requires a literature search, which would not be completely co-extensive. It is an undue burden for the examiner to search more than one invention. Therefore restriction for examination purposes as indicated is proper.

Species Election

7. Claims 9 and 11 are generic to a plurality of disclosed patentably distinct species comprising the autoimmune disease treated. Applicant is required under 35 U.S.C. 121 to elect a single disclosed species, even though this requirement is traversed.

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

8. Claim 13 is generic to a plurality of disclosed patentably distinct species comprising the type of cancer treated. Applicant is required under 35 U.S.C. 121 to elect a single disclosed species, even though this requirement is traversed.

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

- 9. Applicant is advised that the response to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed.
- 10. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Application/Control Number: 09/963,316

Art Unit: 1644

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jessica Roark whose telephone number is (703) 605-1209. The examiner can normally be reached Monday through Friday from 8:00 AM to 4:30 PM. A message may be left on the examiner's voice mail service. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christina Chan can be reached on (703) 308-3973. Any inquiry of a general nature or relating to the status of this application should be directed to the Technology Center 1600 receptionist whose telephone number is (703) 308-0196.

Papers related to this application may be submitted to Technology Center 1600 by facsimile transmission. Papers should be faxed to Technology Center 1600 via the PTO Fax Center located in Crystal Mall 1. The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). The CM1 Fax Center number is (703) 872-9306.

Jessica Roark, Ph.D. Patent Examiner Technology Center 1600 September 23, 2003

> PHYLLIP GAMBEL, PH.D PRIMARY EXAMINER 7004 CONT 1600 9/27/03